

Dylan Mumm

11.8.18

1

```
C:\Users\Dylan>nslookup www.aait.or.kr
Server: smtp.wtsky.net
Address: 104.222.16.6

Non-authoritative answer:
Name: www.aait.or.kr
Address: 58.229.6.225
```

2.

```
C:\Users\Dylan>nslookup -type=NS lnu.se
Server: smtp.wtsky.net
Address: 104.222.16.6

Non-authoritative answer:
lnu.se.sc.wtsky.net nameserver = ns1.wtsky.net
lnu.se.sc.wtsky.net nameserver = ns2.wtsky.net
```

3

```
C:\Users\Dylan>nslookup mail.yahoo.com smtp.wtsky.net
Server: smtp.wtsky.net
Address: 2605:ad80:1f:c000::6

Non-authoritative answer:
Name: fd-geoycpi-uno.gycpi.b.yahoodns.net
Addresses: 2001:4998:15c:806::3000
            2001:4998:15c:803::4000
            2001:4998:15c:801::3000
            2001:4998:15c:805::3000
            209.73.178.217
            209.73.179.26
            209.73.179.137
            209.73.178.74
Aliases: mail.yahoo.com
```

4. udp

5. 53 for both

6. 104.222.16.6, which is one of my DNS ips

7. A, no

8. 2 answers with host name, type, class, TTL, length and IP

9. Yes, first ip in dns response message

10. No

11. 53 for both

12. 104.222.16.6, yes

13. A

14. One answer with host name, type, class, ttl, length, IP

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15.

2	5.495276	104.222.16.6	10.167.16.34	DNS	200 Standard query response 0x0009 AAAA www.mit.edu CNAME www.mit.edu.edgekey.net CNAME e9
2	5.518902	10.167.16.34	108.61.73.24	TLSv...	135 Application Data
2	5.545996	10.167.16.34	108.61.73.24	UDP	149 52728 → 50895 Len=107
2	5.547637	108.61.73.24	10.167.16.34	TCP	60 443 → 59057 [ACK] Seq=1 Ack=1135 Win=67 Len=0
2	5.563958	10.167.16.34	108.61.73.24	UDP	152 52728 → 50895 Len=110

> Frame 274: 200 bytes on wire (1600 bits), 200 bytes captured (1600 bits) on interface 0  
> Ethernet II, Src: Routerbo\_3b:09:cb (e4:8d:8c:3b:09:cb), Dst: Micro-St\_a0:5b:42 (d8:cb:8a:a0:5b:42)  
> Internet Protocol Version 4, Src: 104.222.16.6, Dst: 10.167.16.34  
> User Datagram Protocol, Src Port: 53, Dst Port: 51615  
▼ Domain Name System (response)  
Transaction ID: 0x0009  
> Flags: 0x8180 Standard query response, No error  
Questions: 1  
Answer RRs: 4  
Authority RRs: 0  
Additional RRs: 0  
> Queries  
▼ Answers  
    ▼ www.mit.edu: type CNAME, class IN, cname www.mit.edu.edgekey.net  
        Name: www.mit.edu  
        Type: CNAME (Canonical NAME for an alias) (5)  
        Class: IN (0x0001)  
        Time to live: 1800  
        Data length: 25  
        CNAME: www.mit.edu.edgekey.net  
    > www.mit.edu.edgekey.net: type CNAME, class IN, cname e9566.dscb.akamaiedge.net  
    > e9566.dscb.akamaiedge.net: type AAAA, class IN, addr 2600:1402:a:19f::255e  
    > e9566.dscb.akamaiedge.net: type AAAA, class IN, addr 2600:1402:a:189::255e  
[Request In: 273]  
[Time: 0.034424000 seconds]

16. 104.222.16.6, yes

17. NS, no answers

18. Ns1.wtsky.net, ns2.wtsky.net. cant find IP addresses.

19. .

8	104.222.16.6	10.167.16.34	DNS	116 Standard query response 0x0003 NS mit.edu.sc.wtsk
4	10.167.16.34	155.133.254.132	SKYPE	126 Unknown_0 Unk: 3
7	108.61.73.24	10.167.16.34	SKYPE	94 Unknown_0
6	108.61.73.24	10.167.16.34	SKYPE	94 Unknown_0

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[Stream index: 16]  
▼ Domain Name System (response)  
Transaction ID: 0x0003  
> Flags: 0x8180 Standard query response, No error  
Questions: 1  
Answer RRs: 2  
Authority RRs: 0  
Additional RRs: 0  
▼ Queries  
> mit.edu.sc.wtsky.net: type NS, class IN  
▼ Answers  
    ▼ mit.edu.sc.wtsky.net: type NS, class IN, ns ns1.wtsky.net  
        Name: mit.edu.sc.wtsky.net  
        Type: NS (authoritative Name Server) (2)  
        Class: IN (0x0001)  
        Time to live: 82473  
        Data length: 6  
        Name Server: ns1.wtsky.net  
    ▼ mit.edu.sc.wtsky.net: type NS, class IN, ns ns2.wtsky.net  
        Name: mit.edu.sc.wtsky.net  
        Type: NS (authoritative Name Server) (2)  
        Class: IN (0x0001)  
        Time to live: 82473  
        Data length: 6  
        Name Server: ns2.wtsky.net

20. Timeout

21. Timeout

22. Timeout

23. Timeout